

```
package gestnote.ModelDate;
```

```
public class Student {  
    public String nume;  
    public String grupa;  
    public DisciplinaNota[] note;  
  
    public Student(String name, String gr) {  
        this.nume=name;  
        this.grupa=gr;  
    }  
  
    public double calculMedia(){  
        double media=0;  
        boolean restante=false;  
        for (int i=0;i<note.length;i++)  
            if (note[i].getNotaFinala(<5)  
                { restante=true;  
                  break;  
                }  
            else  
                media=media+note[i].getNotaFinala();  
  
        if (!restante)  
            return media/note.length;  
        else  
            return 4;  
    }  
    public String toString(){  
        String text=this.nume+" -> note:";  
        for (int i=0;i<note.length;i++)  
            text=text+note[i].toString()+" , ";  
        return text;  
    }  
}
```

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```
public class Disciplina {  
    public String denumire;  
    public int nrCredite;  
  
    public Disciplina(String nume, int credite) {  
        this.denumire=nume;  
        this.nrCredite=credite;  
    }  
}
```

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```
public class DisciplinaNota {  
    public Disciplina disciplina;  
    private AbstractNota objNota;  
  
    public DisciplinaNota(Disciplina disc, AbstractNota nota) {  
        this.disciplina=disc;  
        this.objNota=nota;  
    }  
    public void setNota(AbstractNota nota){  
        this.objNota=nota;  
    }  
    public AbstractNota getNota(){  
        return this.objNota;  
    }  
    public double getNrCredite(){  
        return this.disciplina.nrCredite*this.objNota.getNotaFin();  
    }  
    public double getNotaFinala(){  
        return this.objNota.getNotaFin();  
    }  
  
    public String toString(){  
        return this.disciplina.denumire+"("+this.getNotaFinala()+")";  
    }  
}
```

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```
public abstract class AbstractNota {  
  
    public AbstractNota() {}  
    public abstract double getNotaFin();  
  
}
```

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```
public class NotaSimpla1 extends AbstractNota{  
    protected double notaExamen;  
  
    public NotaSimpla1(){ }  
  
    public NotaSimpla1(double nota) throws NotaInvalidaException{  
        if (nota>=0 && nota<=10)  
            this.notaExamen=nota;  
        else  
            throw new NotaInvalidaException (nota );  
    }  
  
    public double getNotaFin() {  
        return this.notaExamen;  
    }  
    public void setNotaExamen(double nota) throws NotaInvalidaException{  
        if (nota>=0 && nota<=10)  
            this.notaExamen=nota;  
        else  
            throw new NotaInvalidaException (nota );  
    }  
    public double getNotaExamen(){return this.notaExamen;}  
  
}
```

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```
public class NotaSimpla2 extends AbstractNota{
```

```
    public boolean admis;
```

```
    public NotaSimpla2(boolean rezultat) {  
        this.admis=rezultat;  
    }  
}
```

```
    public double getNotaFin() {  
        if (admis)  
            return 10;  
        else  
            return 4;  
    }  
}
```

```
}
```

```
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```

```
public class NotaCompusa1 extends NotaSimpla1 {  
    protected double notaProiect;
```

```
    public NotaCompusa1(double notaEx, double notaPr) throws NotaInvalidaException {  
        super(notaEx);  
        if (notaPr>=0 && notaPr<=10)  
            this.notaProiect=notaPr;  
        else  
            throw new NotaInvalidaException (notaPr);  
    }  
}
```

```
    public double getNotaFin(){  
        return (this.notaProiect+this.notaExamen)/2;  
    }  
}
```

```
    public void setNotaProiect(double nota) throws NotaInvalidaException{  
        if (nota>=0 && nota<=10)  
            this.notaProiect=nota;  
        else  
            throw new NotaInvalidaException (nota);  
    }  
}
```

```
    public double getNotaProiect(){return this.notaProiect;}  
}
```

```
package gestnote.ModelDate;

public class NotaInvalidaException extends Exception {

    /** Creates a new instance of NotaInvalidaException */
    public NotaInvalidaException(double nota) {
        super(" NOTA "+nota+" INVALIDA: 0 <= nota <=10 !!!!!" );
    }
}
```